

Microeconomics for Managers

This fully updated fourth edition explores microeconomic concepts, with a distinctive emphasis on the "economic way of thinking" and its applicability to sharp managerial thinking, productivity, and good decision-making. It stands apart due to its strong focus on practical and applied knowledge from the business context and its unique structure (Part A of each chapter develops key economic principles; Part B draws on those principles to discuss organizational and incentive issues in management, focusing on solving the "principalagent" problem to maximize the profitability of the firm). There are plentiful real-life scenarios and provocative examples in each chapter. Accessible to MBA students, other graduate students, and undergraduates, it is ideal as a core text for courses in managerial economics. Requiring an understanding of only basic algebra, this new edition is more concise, with a wealth of online resources, including additional online chapters and an online appendix with more-advanced mathematical applications.

Richard B. McKenzie is the Walter B. Gerken Professor of Enterprise and Society Emeritus in the Paul Merage School of Business at the University of California, Irvine.

D. Eric Schansberg is Professor of Economics at Indiana University Southeast.

Dwight R. Lee is a Professor Emeritus at the University of Georgia.



"This book fills a niche and is written by leaders and experts in the field. It prepares students to become competent, efficient partners in the decision-making of organizations and is rich in public policy and managerial applications. The knowledge it imparts will benefit those who seek greater insight into budgeting, pricing strategies, and the gaining of competitive advantage."

Walter G. Park, American University

"Microeconomics for Managers remains the best textbook for teaching economics to MBA students. The authors' method of treating economic subjects as people rather than lines on a spreadsheet will inoculate MBA students against economic mistakes. The updates of this 4th edition show how the economic way of thinking remains vital in the post-pandemic business world."

Jonathan Murphy, Western Carolina University



Microeconomics for Managers

Principles and Applications

Fourth Edition

Richard B. McKenzie University of California, Irvine

D. Eric Schansberg Indiana University Southeast

Dwight R. Lee University of Georgia







Shaftesbury Road, Cambridge CB2 8EA, United Kingdom

One Liberty Plaza, 20th Floor, New York, NY 10006, USA

477 Williamstown Road, Port Melbourne, VIC 3207, Australia

314-321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi - 110025, India

103 Penang Road, #05-06/07, Visioncrest Commercial, Singapore 238467

Cambridge University Press is part of Cambridge University Press & Assessment, a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence.

www.cambridge.org

Information on this title: www.cambridge.org/highereducation/isbn/9781009354783

DOI: 10.1017/9781009354790

© Richard B. McKenzie, D. Eric Schansberg, Dwight R. Lee 2024

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press & Assessment.

First published 2006 Second edition 2010 Third edition 2017

Printed in the United Kingdom by CPI Group Ltd, Croydon, CRO 4YY

A catalogue record for this publication is available from the British Library

Library of Congress Cataloging-in-Publication Data

Names: McKenzie, Richard B., author. | Schansberg, D. Eric, author. | Lee, Dwight R., author.

Title: Microeconomics for managers: principles and applications / Richard B. McKenzie, University of California, Irvine, D. Eric Schansberg, Indiana University Southeast. Dwight R. Lee, University of Georgia.

Other titles: Microeconomics for MBAs.

Description: Fourth Edition. | New York, NY : Cambridge University Press, [2024] | Revised edition of Microeconomics for MBAs, 2017. | Includes bibliographical references and index.

Identifiers: LCCN 2023038081 | ISBN 9781009354783 (hardback) | ISBN 9781009354790 (ebook)

Subjects: LCSH: Microeconomics. | Managerial economics.

Classification: LCC HB172 .M396 2024 | DDC 338.5-dc23/eng/20230814

LC record available at https://lccn.loc.gov/2023038081

ISBN 978-1-009-35478-3 Hardback ISBN 978-1-009-50719-6 Paperback

Additional resources for this publication at www.cambridge.org/mckenzie4.

Cambridge University Press & Assessment has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.



Short Contents

	List of Figures	page xv
	List of Tables	xviii
	List of Further Reading Online	xix
	List of Recommended Videos Online	xxi
	Preface for Teachers	XXV
	Preface for Students	xxxiii
	Book I The Market Economy, Overview, and Applications	1
1	Microeconomics: A Way of Thinking about Business	3
2	Principles of Rational Behavior in Society and Business	46
3	Competitive Product Markets and Firm Decisions	87
4	Consumer Choice and Demand in Traditional and	
	Network Markets	130
5	Applications of Demand and Supply to Government and	
	Management Policies	166
6	Principles of Political Economy for Public Policy and Business	206
	Book II Producer Theory	251
7	Production, Costs, and the Theory of the Firm	253
8	Production Costs in the Short Run and Long Run	298
	Book III Competitive and Monopoly Market Structures	331
9	Firm Production under Idealized Competitive Conditions	333
10	Monopoly Power and Firm Pricing Decisions	373
11	Firm Strategy under Imperfectly Competitive Market Conditions	420
12	Competitive and Monopsonistic Labor Markets	464
	Select Bibliography	513
	Index	516



Contents

List of Figures

List of Tables

List of Further Reading Online

	List of Recommended Videos Online	xxi
	Preface for Teachers	XXV
	Preface for Students	xxxiii
	Book I The Market Economy, Overview, and Applications	1
l	Microeconomics: A Way of Thinking about Business	3
	Part A Theory and Public Policy Applications	4
	The Emergence of a Market	4
	The Economic Problem	6
	The Scope of Economics	9
	Developing and Using Economic Theories	10
	Microeconomics and Macroeconomics	12
	Private Property Rights, Game Theory, and the Prisoner's Dilemma	13
	Private Property Rights and the Games Economists Play	14
	Private Property Rights and the Market	15
	The Emergence of Private Property Rights	16
	Game Theory: Prisoner's Dilemmas	19
	Prisoner's Dilemma Solutions: Enforcement and Trade	20
	Communal Property Rights and the "Tragedy of the Commons"	22
	Voluntary Organizations and Firms as Solutions for	
	"Tragedies of the Commons"	25
	The Tragedy of the Anticommons	27
	Perspective 1 "I, Pencil," by Leonard E. Read	29
	Part B Organizational Economics and Management	34
	Property Rights (or Not) in the Workplace	34
	Managing through Incentives	35
	Perverse Incentives	37
	Why Incentives Are Important	39

page xv

xviii

xix



viii Contents

	Practical Lessons	42
	Further Reading Online	43
	Recommended Videos Online The Bottom Line	43
	Review Questions	43 44
2	Principles of Rational Behavior in Society and Business	46
	Part A Theory and Public Policy Applications	47
	Rationality: a Basis for Exploring Human Behavior	48
	Rational Decisions in a Constrained Environment	50
	Maximizing Satisfaction: Cost-Benefit Analysis	54
	The Effects of Time and Risk on Costs and Benefits	56
	What Rational Behavior Does <i>Not</i> Mean	60
	Perspective 2 The Evolutionary Foundations of Cooperation	62
	Part B Organizational Economics and Management	65
	The Logic of Group Behavior in Business and Elsewhere	65
	The Economic Logic of Group Behavior	66
	Overcoming Prisoner's Dilemmas through Tough Bosses The Role of the Residual Claimant in Abating Prisoner's	75
	Dilemmas in Large Groups	81
	Practical Lessons	83
	Further Reading Online	84
	Recommended Videos Online	84
	The Bottom Line	84
	Review Questions	85
3	Competitive Product Markets and Firm Decisions	87
	Part A Theory and Public Policy Applications	88
	The Competitive Market Process	88
	Supply and Demand: a Market Model	91
	Market Equilibrium	100
	The Efficiency of the Competitive Market Model	105
	Non-Price Competition	107
	Perspective 3 Why Queues?	111
	Part B Organizational Economics and Management	114
	Henry Ford's "Overpayment"	114
	Overpayments to Prevent Misuse of Firm Resources	118



JIILE		
	The Underpayment and Overpayment of Workers	119
	Mandatory Retirement The Rele of "Credible Commitments" by Employers	120
	The Role of "Credible Commitments" by Employers	122
	Practical Lessons	126
	Further Reading Online	126
	Recommended Videos Online	126
	The Bottom Line	127
	Review Questions	128
4	Consumer Choice and Demand in Traditional	
	and Network Markets	130
	Part A Theory and Public Policy Applications	131
	Rational Consumption: the Concept of Marginal Utility	131
	Changes in Price and the Law of Demand	134
	From Individual Demand to Market Demand	136
	Elasticity of Demand: Consumer Responsiveness to Price Changes	137
	Applications of the Concept of Elasticity	142
	Determinants of the Price Elasticity of Demand	144
	Changes in Income and the Prices of Related Goods (Revisited)	146
	Acquisition and Transaction Utility	147
	Objections to Demand Theory	148
	Perspective 4 Common Concerns Relating to the Law of Demand	148
	Part B Organizational Economics and Management	154
	Pricing Strategies and Demand Characteristics	154
	Software Networks	159
	Practical Lessons	162
	Further Reading Online	163
	Recommended Videos Online	163
	The Bottom Line	163
	Review Questions	164
5	Applications of Demand and Supply to Government and	
	Management Policies	166
	Part A Theory and Public Policy Applications	167
	Who Pays the Tax?	167
	Price Controls	170
	Minimum Wages	176
	Fringe Benefits, Incentives, and Profits	181

ix



x Contents

	Perspective 5 Maslow's "Hierarchy of Needs" and Contrasting Views on Human (and Economic) Choices	187
	Part B Organizational Economics and Management	191
	How Honesty Can Pay in Business Game Theory (Again): Games of Trust The Role of "Hostages" in Business Adverse Selection and the "Moral Hazard" Problem	191 193 195 198
	Practical Lessons Further Reading Online Recommended Videos Online The Bottom Line Review Questions	201 202 202 202 204
6	Principles of Political Economy for Public Policy and Business	206
	Part A Political Economy, Public Policy, and the Role of Government	207
	Efficiency, Equity, and Paternalism Government Intervention on Efficiency Grounds "Public Goods"	207 209 210
	Externalities What Sort of Government Intervention Should We Choose?	211 216
	Knowledge and Motives in Economic versus Political Markets "Public Choice" Economics and the Inefficiencies of Democracy The Central Tendency of a Two-Party System: Median Voter	217 219
	Preferences The Economics of Government Bureaucracy	225 229
	The Efficiency of Competition among Governments Perspective 6 "A PETITION from the Manufacturers of Candles"	232
	by Frédéric Bastiat	233
	Part B Organizational Economics and Management	236
	Applying Political Models to the Workplace Examples of "Public Goods" in Business	236237
	Spam: an Example of Negative Externalities in Business Choosing the Most Efficient Remedy for Reducing External Costs of	239
	Pollution International Trade: There's Always an Incentive to Restrict Your	241
	Competition	244



conte	nts		XI	
	Practical Lessons	247		
	Further Reading Online	248		
	Recommended Videos Online	248		
	The Bottom Line	249		
	Review Questions	250		
	Book II Producer Theory	251		
7	Production, Costs, and the Theory of the Firm	253		
	Part A Theory and Public Policy Applications	255		
	Deviations from Profit Maximization	255		
	Various Cost Conceptions	256		
	The Special Significance of Marginal Cost	259		
	The Cost-Benefit Trade-Off	263		
	Price and Marginal Cost: Producing to Maximize Profits	266		
	From Individual Supply to Market Supply	267		
	Perspective 7 Why Professors Have Tenure and Business	250		
	People Don't	268		
	Part B Organizational Economics and Management	275		
	Production Costs, Firm Size, and Organizational Structure	275		
	Firms and Market Efficiency	276		
	Costs that Limit Firm Size: "Agency Problems"	279		
	Optimally Sized Firms	281		
	Changes in Organizational Costs	283		
	Overcoming Prisoner's Dilemma Problems in Larger Firms	285		
	"Make-or-Buy" Decisions Franchising	287 291		
	Tanchising	291		
	Practical Lessons	294		
	Further Reading Online	295		
	Recommended Videos Online	295		
	The Bottom Line	295		
	Review Questions	296		
8	Production Costs in the Short Run and Long Run	298		
	Part A Theory and Public Policy Applications	299		
	Fixed, Variable, and Total Costs in the Short Run	299		
	Marginal and Average Costs in the Short Run	300		



xii Contents

Marginal and Average Costs in the Long Run Industry Differences in Average Cost Changes in Input Prices The Very Long Run Perspective 8 The Last-Period Problem	304 307 309 310 311
Part B Organizational Economics and Management	318
Debt/Equity Structures and Executive Incentives Debt and Equity as Alternative Investment Vehicles Destructive Incentives in the Financial Sector and Housing Markets Spreading Risks Industry Maturity and the Misuse of Cash	318 319 321 323 324
Practical Lessons Recommended Videos Online The Bottom Line Review Questions	326 327 327 328
Book III Competitive and Monopoly Market Structures	331
Firm Production under Idealized Competitive Conditions	333
Part A Theory and Public Policy Applications	334
An Introduction to Pricing and Production Strategies under the Four Basic Market Structures The Perfect Competitor's Production Decision Maximizing Short-Run Profits Minimizing Short-Run Losses Producing over the Long Run Marginal Benefit versus Marginal Cost Critiques of the Efficiency of Perfect Competition The Unreal Nature of Perfect Competition The Role of Innovation and Entrepreneurship Perspective 9 The Myth of the First-Mover Advantage	334 339 342 343 346 349 351 354 356 358
Part B Organizational Economics and Management	360
Competing Cost-Effectively through Efficient Teams Team Production Paying Teams Experimental Evidence on the Effectiveness of Team Pay	360 361 364 366



Conte	ents	xii
	Practical Lessons	368
	Further Reading Online	370
	Recommended Videos Online	370
	The Bottom Line	370
	Review Questions	371
10	Monopoly Power and Firm Pricing Decisions	373
	Part A Theory and Public Policy Applications	375
	The Origins of Monopoly Power	375
	The Limits of Monopoly Power	377
	Equating Marginal Cost with Marginal Revenue (Again)	380
	The Comparative Inefficiency of Monopoly	385
	Monopoly Profits	387
	Price Discrimination	389
	Applications of Monopoly Theory	394
	The Total Cost of Monopoly Power	397
	Durable Goods Monopoly	398
	Monopoly in Government and Inside Firms	400
	Perspective 10 The QWERTY Keyboard: a Case of "Lock-in"?	401
	Part B Organizational Economics and Management	404
	Profits from Creative Pricing	404
	Price Discrimination in Practice	404
	Implied Cartels	410
	Practical Lessons	414
	Further Reading Online	416
	Recommended Videos Online	416
	The Bottom Line	416
	Review Questions	418
11	Firm Strategy under Imperfectly Competitive Market	
	Conditions	420
	Part A Theory and Public Policy Applications	421
	Monopolistic Competition	422
	Oligopoly	426
	Cartels: Incentives to Collude, to Cheat, and to Enter	429
	Game Theory: Cartels and the Nash Equilibrium	431
	The Case of the Natural Monopoly	435



xiv Contents

	The Economics and Politics of Regulating Monopoly Power Perspective 11 The "Innovator's Dilemma"	436 443
	Part B Organizational Economics and Management	449
	"Hostile" Takeover as a Check on Managerial Monopolies and Other	
	Inefficiencies	449
	The Market for Corporate Control	450
	The Efficiency of Takeovers Will Monopoly Profits Last into the Very Long Run?	453 459
	Practical Lessons	460
	Further Reading Online	461
	Recommended Videos Online	461
	The Bottom Line	462
	Review Questions	462
12	Competitive and Monopsonistic Labor Markets	464
	Part A Theory and Public Policy Applications	465
	The Demand for and Supply of Labor	465
	Why Wage Rates Differ	473
	Overtime Pay: an Unmitigated Benefit for Covered Workers?	477
	Monopsonistic Labor Markets	478
	Employer Cartels: Monopsony Power through Collusion	483
	Monopsony and the Minimum Wage	485
	Employee Cartels: Monopoly Power for Workers through Unions Powerpositive 12 Powerpol and Statistical Discrimination	486
	Perspective 12 Personal and Statistical Discrimination	488
	Part B Organizational Economics and Management	494
	Paying for Performance	494
	"Piece-Rate" Pay (or Not)	497
	Two-Part Pay Systems	504
	Practical Lessons	508
	Further Reading Online	508
	Recommended Videos Online	508
	The Bottom Line	509
	Review Questions	510
	Select Bibliography	513
	Index	516



Figures

2.1	Constrained choice	page 51
2.2	Change in constraints	52
2.3	Nonlinear constraints	53
3.1	Market demand for tomatoes	93
3.2	Shifts in the demand curve	95
3.3	Supply of tomatoes	98
3.4	Shifts in the supply curve	99
3.5	Market surplus	100
3.6	Market shortage	102
3.7	The effects of changes in supply and demand	104
3.8	The efficiency of the competitive market	106
3.9	Consumer preferences in television size	107
3.10	Product improvements	110
3.11	Twisted pay scale	121
4.1	The law of demand	135
4.2	Market demand curve	136
4.3	Elastic and inelastic demand	138
4.4	Changes in the elasticity coefficient	141
4.5	Perfectly elastic demand	145
4.6	Upward-sloping demand?	150
4.7	Demand including irrational behavior	151
4.8	Random behavior, budget lines, and downward-sloping	
	demand curves	152
4.9	Random behavior and the demand curve as a "band"	153
4.10	Rational addiction, network effects, and demand	157
5.1	The economic effect of an excise tax	168
5.2	The effect of an excise tax when demand is flatter than supply	169
5.3	The effect of price controls	171
5.4	The effect of rationing on (legal) demand	173
5.5	The standard view of the impact of the minimum wage	177
5.6	Fringe benefits and the labor market	183
5.7	Maslow's "Hierarchy of Needs"	188
6.1	External costs	212
6.2	External benefits	214



xvi List of Figures

6.3	The political spectrum	226
6.4	Bureaucratic maximization	230
6.5	Market for pollution rights	242
6.6	Losses from competition with imported products	245
7.1	Rising marginal cost	260
7.2	The law of diminishing marginal returns	263
7.3	Costs and benefits of fishing	264
7.4	Accident prevention	265
7.5	Marginal costs and maximization of profit	266
7.6	Market supply curve	268
7.7	External and internal coordinating costs	282
8.1	Total fixed costs, total variable costs, and total cost in	
	the short run	301
8.2	Marginal and average costs in the short run	302
8.3	Economies of scale	305
8.4	Diseconomies of scale	306
8.5	Marginal and average costs in the long run	307
8.6	Individual differences in long-run average cost curves	308
8.7	Shifts in average and marginal cost curves	310
9.1	Demand curve faced by perfect competitors	336
9.2	Demand curve faced by a monopolistic competitor	339
9.3	The perfect competitor's production decision	340
9.4	Change in the perfect competitor's market price	341
9.5	The profit-maximizing perfect competitor	342
9.6	The loss-minimizing perfect competitor	344
9.7	The long-run effects of short-run profits	346
9.8	The long-run effects of short-run losses	348
9.9	The long-run effects of economies of scale	349
9.10	The efficiency of the competitive market	350
9.11	Supply and demand cobweb	352
0.1	The monopolist's demand and marginal revenue curves	382
0.2	Equating marginal cost with marginal revenue	383
0.3	The monopolist's profits	384
0.4	The monopolist's short-run losses	385
0.5	The comparative efficiency of monopoly and competition	386
0.6	The costs and benefits of expanded production	387
0.7	Monopoly profit maximization	388
8.0	Price discrimination	389
0.9	Perfect price discrimination	391
0 10	Imperfect price discrimination by market segments	393



List of	Figures	
10.11	The effect of price controls on the monopolistic production	
10.11	decision	394
10.12	Taxing monopoly profits	395
11.1	Monopolistic competition in the short run	423
11.2	Monopolistic competition in the long run	424
11.3	The oligopolist as monopolist	426
11.4	The oligopolist as price leader	428
11.5	A duopoly in a two-member cartel	430
11.6	Long-run marginal and average costs in a natural monopoly	435
11.7	Creation of a natural monopoly	436
11.8	The effect of regulation on a cartelized industry	437
11.9	Underproduction by a natural monopoly	439
11.10	Regulation and increasing costs	440
12.1	Shift in demand for labor	469
12.2	Shift in supply of labor	470
12.3	Equilibrium in the labor market	472
12.4	The effect of nonmonetary rewards on wage rates	474
12.5	The effect of differences in supply and demand on wage rates	476
12.6	The competitive labor market	481
12.7	The marginal cost of labor	482
12.8	The monopsonist	483
12.9	The employer cartel	484
12.10	The employee cartel	486
12 11	Menu of two-part pay packages	506



Tables

1.1	The games Fred and Harry can play with property rights	page 18
1.2	Relative satisfaction from marginal units consumed	20
1.3	Specializing in production and trade	20
2.1	The inclination to shirk on the job	77
2.2	Shirking in large worker groups	78
2.3	The "battle of the sexes"	80
3.1	Market demand for tomatoes	92
3.2	Market supply of tomatoes	97
4.1	Marginal utility for Cokes and hot dogs	134
4.2	Market demand for Coke	137
4.3	Coefficients for three categories of demand elasticities	140
5.1	The problem of trust in business	194
5.2	The problem of trust in business (again)	194
6.1	Costs and benefits of a public park for five people, case I	227
6.2	Costs and benefits of a public park for five people, case II	228
6.3	Costs of reducing SO ₂ emissions	241
6.4	Demand for pollution rights	243
7.1	Marginal costs of producing tomatoes	262
8.1	Total, marginal, and average costs of production	301
9.1	Characteristics of the four basic market structures	335
10.1	The monopolist's declining marginal revenue	381
10.2	Data for question 10	418
11.1	Game theory: cartel incentives and the Nash equilibrium	432
12.1	Computing the marginal value of labor	468
12.2	Market demand for workers	481



Further Reading Online

The Further Readings are all available on the Cambridge online resources website www.cambridge.org/mckenzie4 as files and (in the case of those with an external source marked in brackets) as links.

- 1.1 The economics of suspense (*The New York Times*)
- 1.2 The cost of paying attention (*The New York Times*)
- 1.3 Disincentives in poverty relief
- 1.4 Game theory says Pete Carroll's call at goal line is defensible (*The New York Times*)
- 1.5 In Greek debt puzzle, the game theorists have it (*The New York Times*)
- 2.1 Marriages, mistresses, and marginalism (Foundation for Economic Education)
- 2.2 Management snooping
- 2.3 Risk-taking, risk aversion, and firm ownership
- 3.1 Putting a price on Simon Kuznets's Nobel Prize in Economics (*The New York Times*)
- 3.2 Manhattan area codes multiply, but the original 212 is still coveted (*The New York Times*)
- 3.3 The use of knowledge in society (The Library of Economics and Liberty)
- 3.4 Price competition in the short run and the long run
- 3.5 The upside of waiting in line (*The New York Times*)
- 4.1 Covering relocation costs of new hires
- 4.2 For New York Times, a gamble on giveaways (The Wall Street Journal)
- 5.1 Your contribution to the California drought (*The New York Times*)
- 5.2 They clapped: Can price-gouging laws prohibit scarcity? (The Library of Economics and Liberty)
- 5.3 The right minimum wage: \$0.00 (*The New York Times*)
- 5.4 A \$15 minimum wage bombshell in Los Angeles (*The New York Times*)
- 5.5 Key econometric findings on the effects of the minimum wage
- 5.6 Driving the lemon myth off the lot (Fox News)
- 6.1 Why walking to work can be more polluting than driving to work
- 6.2 Pedophiles and the regulation of hugging
- 6.3 The government nobody knows nor wants to know (*The Independent Review*)



xx List of Further Reading Online

- 6.4 Why businessmen are more honest than preachers, politicians, and professors (*The Independent Review*)
- 6.5 The cases for and against free trade
- 6.6 The travels of a T-shirt in a global economy
- 7.1 Why good managers are so rare (Harvard Business Review)
- 7.2 Cutting health insurance costs through medical savings accounts
- 9.1 Contestable markets
- 9.2 Wanted: entrepreneurs (Federal Reserve Bank of Minneapolis)
- 9.3 Political entrepreneurs are crowding out the entrepreneurs (RealClearMarkets.com)
- 10.1 The Microsoft monopoly
- 10.2 The "endowment effect" and pricing
- 10.3 In defense of monopoly (*Regulation*)
- 11.1 The value of "mistreating" customers
- 11.2 The special case for regulating banking
- 11.3 At Kodak, clinging to a future beyond film (*The New York Times*)
- 11.4 Hostile takeover defenses
- 11.5 Antitrust laws in the United States
- 11.6 Why economics has been fruitful for strategy (Scribd)
- 12.1 Incentives in the Irvine Company rental contracts

Online Chapter 1 Behavioral economics

Online Chapter 2 The environment and environmental policies

Online Chapter 3 International trade and finance

Online Chapter 4 A primer on macroeconomics

Online Math Appendix

We are grateful to Getty for the use of their lightbulb/open book icon (© Sobahus Surur/Creative/iStock/Getty Images Plus).



Recommended Videos Online

The videos marked with minutes are lectures by Richard McKenzie; the other videos are supplemental. The lectures and, in the case of the supplementary videos, the links are available on the Cambridge online resources website www.cambridge.org/mckenzie4.

1 Microeconomics: A Way of Thinking about Business

- 1 Video course introduction (17 minutes)
- 2 Introduction to the economic way of thinking, 1 (28 minutes)
- 3 The economic way of thinking, 2 (29 minutes)
- 4 Property rights, markets, and tragedies of the commons (33 minutes)
- 5 Prisoner's Dilemma (28 minutes)
- 6 Comparative advantage (21 minutes)
- 7 Tragedies of the anticommons (18 minutes)

2 Principles of Rational Behavior in Society and Business

- 1 Rational behavior and the law of demand (31 minutes)
- 2 Rational behavior, continued (26 minutes)

3 Competitive Product Markets and Firm Decisions

- 1 Supply and demand (33 minutes)
- 2 Market efficiency (26 minutes)
- 3 Adding features to products (32 minutes)
- 4 The logic of queues, 1 (24 minutes)
- 5 The logic of queues, 2 (25 minutes)
- 6 Executive pay and overpayment (33 minutes)
- 7 Both Curves; Shifts in Supply and Demand; Supply; Demand; Surplus (Marginal Revolution University @ Practice.MRU.org/)

4 Consumer Choice and Demand in Traditional and Network Markets

- 1 Elasticity of demand (29 minutes)
- 2 Rational addiction (21 minutes)
- 3 Network effects (27 minutes)
- 4 Trust me (Freakonomics.com #266)
- 5 How Airbnb designs for trust (Joe Gebbia; TED talks)



xxii List of Recommended Videos Online

5 Applications of Demand and Supply to Government and Management Policies

- 1 Taxes, subsidies, and prostitution (30 minutes)
- 2 Rent controls (25 minutes)
- 3 Minimum wages (27 minutes)
- 4 Adding fringe benefits (29 minutes)
- 5 Maslow's "Hierarchy of Needs" (21 minutes)
- 6 Incentives, trust, and welfare (25 minutes)
- 7 Leverage and moral hazard (16 minutes)
- 8 The lemon problem (19 minutes)
- 9 The true story of the minimum-wage fight (Freakonomics.com #460)
- 10 What you don't know about online dating (Freakonomics.com #154)
- 11 Price Ceilings; Price Floors (Marginal Revolution University @ Practice.MRU.org/)

6 Principles of Political Economy for Public Policy and Business

- 1 External costs and pollution rights (37 minutes)
- 2 External benefits (24 minutes)
- 3 International trade and protection (32 minutes)
- 4 Government employees gone wild (Freakonomics.com #134)
- 5 Tariffs; Trade; Winners And Losers (Marginal Revolution University @ Practice.MRU.org/)
- 6 What capitalism gets right and governments get wrong (Katherine Mangu-Ward; TED talks)
- 7 San Francisco's Happy Meal ban (*The Daily Show*)
- 8 Traffic (The Guardian)

7 Production, Costs, and the Theory of the Firm

- 1 Principal-agent problems (35 minutes)
- 2 Academic tenure (12 minutes)
- 3 Firms and coordinating costs (27 minutes)
- 4 Make-or-buy decisions (27 minutes)
- 5 Franchising (16 minutes)
- 6 How much does a good boss really matter? (Freakonomics.com #107)
- 7 Why are there so many bad bosses? (Freakonomics.com #495)
- 8 TED-Ed: These companies with no CEO are thriving (TED talks)

8 Production Costs in the Short Run and Long Run

- 1 Short-run cost structures (33 minutes)
- 2 Long-run cost structures (27 minutes)



List of Recommended Videos Online

xxiii

9 Firm Production under Idealized Competitive Conditions

- 1 Production under perfect competition (31 minutes)
- 2 Contestable markets (8 minutes)
- 3 The first-mover advantage? (12 minutes)
- 4 The call of the entrepreneur (The Acton Institute)

10 Monopoly Power and Firm Pricing Decisions

- 1 Production and pricing under pure monopoly (32 minutes)
- 2 Problems with monopoly theory (30 minutes)
- 3 Perfect and imperfect price discrimination (29 minutes)
- 4 Market segmentation (25 minutes)

11 Firm Strategy under Imperfectly Competitive Market Conditions

- 1 Monopolistic competition (27 minutes)
- 2 Oligopoly and cartels (34 minutes)
- 3 Natural monopoly (20 minutes)
- 4 Taxation and regulation of monopoly (23 minutes)
- 5 The innovator's dilemma (36 minutes)
- 6 Comedic/cynical on outsourcing (Despair.com)

12 Competitive and Monopsonistic Labor Markets

- 1 Intro to labor markets (35 minutes)
- 2 Competitive labor markets (37 minutes)
- 3 Monopsony labor markets (32 minutes)
- 4 Labor market discrimination (25 minutes)
- 5 Menu of two-part pay options (12 minutes)
- 6 Relocating workers and two-part pay (16 minutes)
- 7 A cheap employee is ... a cheap employee (Freakonomics.com #79)
- 8 Why does the most monotonous job in the world pay \$1 million? (Freakonomics.com #493)
- 9 The true story of the gender pay gap (Freakonomics.com #232)
- 10 What can Uber teach us about the gender pay gap? (Freakonomics.com #317)
- 11 Learning from dirty jobs (Mike Rowe; TED talks)
- 12 Working stiffed (*The Daily Show*)

We are grateful to Getty for the use of their video play glyphs flat circle icon (© Naveed Anjum/Creative/iStock/Getty Images Plus).



Preface for Teachers

The man who solves complex problems in the space of five minutes on the intuitive basis of "sound" ... judgment [may] sleep easily at night while the analyst who devoted two years to the same topic may sleep badly, but only because he has become acutely aware of all the pitfalls in the problem.

Malcolm Hoag¹

Most textbooks used in a microeconomics course for graduate business students – and in a second microeconomics course for undergraduate business students – are designed with undergraduate economics *majors* (or first-year Ph.D. economics students) in mind. Accordingly, business students are often treated to a conventional course in intermediate microeconomic theory, full of arcane mathematical explanations. The applications in such textbooks deal primarily with the impact of government policies on markets. There is little discussion about real-world managers using microeconomics to make better decisions in response to market forces – or how market forces can be expected to affect the structure of firms. These textbooks pay scant attention to the *economic way of thinking* (which differs dramatically from how other professors think about business issues) and what it offers managers – a way to improve their thinking and decision-making on enhancing profits or achieving other organizational goals.

This is because much microeconomic theory simply assumes firms into existence, with little or nothing about why they are needed in the first place. Moreover, managers and their staff are assumed to do exactly what they are employed to do (e.g., maximize owner profits) with little discussion of how organizational and financial structures affect incentives – and how incentives affect production and profit outcomes. And managers are presumed to think through business problems and make decisions with great (even perfect) care and precision – a premise that leaves less room for teaching students how they can improve their thinking and decision-making.

¹ The Worlds of Herman Kahn: The Intuitive Science of Thermonuclear War by Sharon Ghamari-Tabrizi, Cambridge, Mass.: Harvard University Press, Copyright © 2005 by the President and Fellows of Harvard College. Used by permission. All rights reserved.



xxvi Preface for Teachers

These deficiencies are a problem for serious business students: They typically attend business schools to improve their management skills and learn how to enhance their ability to extract more productivity and profit from the scarce resources available to their firms. They do not want to become economic theorists. As such, *Microeconomics for Managers* breaks from the standard textbook mold. As the title suggests, we have designed this textbook for (future) managers in graduate and undergraduate programs.

The Organization of the Book

In Part A of every chapter, we cover standard microeconomic theory in an accessible way. (We have more technical details in an Online Math Appendix for those who are interested.) Microeconomics adds much to an understanding of firms, consumers, and markets. Such knowledge is valuable – and professors in other business fields will expect their students to have a firm grounding in conventional microeconomic theory. We also provide an array of applications to government policies that business students should understand. After all, managers everywhere face the constraints of government-imposed laws and regulations – and must work to maximize profits within those constraints.

In Part B of every chapter, we go where other microeconomics textbooks seldom, if ever, go with much depth. We drop the usual assumption that firms magically come into existence and automatically maximize profits by simply following maximization rules. Instead, we directly address crucial problems that pervade management decision-making. For example, the "principal–agent problem" is that both owners and workers are more interested in pursuing their own well-being. Owners ("principals") want to maximize their income streams and wealth through the firms they create by getting the most from their employees. Managers and other employees ("agents" of the owner) seek to maximize some combination of income, perks, and job security, which are often in conflict with maximizing profits for the owners. Without effective firm policies that align the incentives of owners and workers for their *mutual benefit*, the work in a firm can be a self-destructive tug of war, with the demise of the firm virtually assured (especially in more-competitive markets).

Getting hourly and monthly pay systems right is obviously an important means of aligning the interests of owners and managers. However, we also explain how the structure of firms, in terms of both people and finances, can affect owner and worker incentives. And make no mistake: both owners and their employees have a stake in finding the right alignment. Jobs can hang in the balance. A firm's ability to thrive and even survive can be greatly impacted by a cost-effective alignment of incentives. As such, we focus student attention on thinking through the complex problems of getting incentives right. There is as much (maybe more) profit to be made from creatively structuring incentives (and prices) as from developing and marketing products for sale.



Preface for Teachers xxvii

Accordingly, this book places a great deal of emphasis on an increasingly important field within economics, especially as the subject relates to the business world and business programs: *organizational economics* – the study of the design of organizational and financial structures in firms, using the analytical tools of microeconomic analysis. The mode of thinking presented in these pages is crucial for managers who want to ascend their corporate hierarchy or create successful companies of their own. Many of these topics are covered in *organizational behavior* courses which are grounded in psychology. With the economic approach developed here, students will understand how business topics can be approached from different disciplinary perspectives, often with complementary insights.

In between Parts A and B of every chapter, we have inserted a "Perspective" – a short section that provides a novel take on a business or policy issue. For example, everyone *knows* (don't they?) that the "first mover" in any market has a competitive advantage. But in Perspective 9 for Chapter 9, we discuss a startling research finding made by management scholars: there is no "first-mover advantage" (or it appears rarely). First movers can even be at a decided disadvantage, which explains why so many well-known firms that dominate their industries today were "followers."

Many authors and their publishers play textbook development "safe" by taking up only those topics that have become fixtures in the profession's "conventional wisdom." Such an approach sucks the life out of a discipline and its textbook treatments. Topics that have not yet been fully settled by decades of professional debate can give life to a discipline by showing students how disciplines have an organic quality, in that they are constantly evolving through debate. As a consequence, you can expect many topics in this book to spark lively and constructive discussions among students and professors. This is how we want the book to be received.

Toward the end of each chapter, we insert a short series of "Practical Lessons" which are designed to show how the concepts in each chapter can help managers solve workplace problems – all with an eye toward enhancing firm profitability (or the achievement of other firm goals). We believe that theory at its best is a guide to improved thinking, decision-making, and profitability – as well as welfare gains for consumers, workers, owners, and society. Each chapter also has a section titled "The bottom line" – a list of *key takeaways* or succinct statements of the most important points to be drawn from the chapter.

The scholarly and policy literature in economics and management related to most of the topics considered in this volume is massive. We have tried to give credit where credit is due, especially where "classic" or seminal treatments are concerned. However, we have tried to limit references and footnotes so the flow of the argument is not constantly disrupted. Given space constraints, we have a modest select bibliography at the end of the book, but a full bibliography online.